

United States of America

DRAFT PROPOSAL FOR THE WORK OF THE CONFERENCE

WRC-03 Agenda Item 1.12a: to consider allocations and regulatory issues related to the space science services in accordance with Resolution **723 (Rev. WRC-2000)**;

Background Information: ITU-R Recommendation **SA.363-5** recommends that frequencies below 1 GHz are technically suitable for telecommand of satellites in the space science services operating below an altitude of 2000 km. A deficiency in telecommand (uplink) frequency allocations has been previously identified, compared to the available telemetry (downlink) allocations in the 100 MHz to 1 GHz range. The deficiency was first noted in Resolution **712 (WARC-92)**, repeated in Resolution **712 (Rev. WRC-95)**, and again in Resolution **723 (WRC-97)**.

This item was originally placed on the WRC-97 agenda. WRC-97 determined that insufficient study had been completed to take action on this agenda item.

Since WRC-2000, additional studies have been undertaken in the ITU-R. The study results show that show that separation distances for aeronautical mobile stations must be over 400 km and for MSS approximately 100 km. These required coordination distances make use of RR **9.17/17a** and Appendix **7** impractical and will result in large geographical regions where existing Aeronautical Mobile, MS, FS, and MSS services are unusable.

Proposal:

USA/ /1 **NOC**

Allocation to services		
Region 1	Region 2	Region 3
	220-225	
223-230 BROADCASTING Fixed Mobile	AMATEUR FIXED MOBILE Radiolocation 5.241	223-230 FIXED MOBILE BROADCASTING
5.243 5.246 5.247	225-235 FIXED MOBILE	AERONAUTICAL RADIONAVIGATION Radiolocation 5.250
230-235 FIXED MOBILE		230-235 FIXED MOBILE AERONAUTICAL RADIONAVIGATION 5.250
5.247 5.251 5.252		

235-267	FIXED MOBILE 5.111 5.199 5.252 5.254 5.256
267-272	FIXED MOBILE Space operation (space-to-Earth) 5.254 5.257
272-273	SPACE OPERATION (space-to-Earth) FIXED MOBILE 5.254
273-312	FIXED MOBILE 5.254
312-315	FIXED MOBILE Mobile-satellite (Earth-to-space) 5.254 5.255
315-322	FIXED MOBILE 5.254
322-328.6	FIXED MOBILE RADIO ASTRONOMY 5.149
328.6-335.4	AERONAUTICAL RADIONAVIGATION 5.258 5.259
335.4-387	FIXED MOBILE 5.254
387-390	FIXED MOBILE Mobile-satellite (space-to-Earth) 5.208A 5.254 5.255
390-399.9	FIXED MOBILE 5.254
399.9-400.05	MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220

Reasons: ITU-R studies have shown that sharing between telecommand and existing services in the 225 – 400 MHz band results in impractical coordination requirements with existing services.
